

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER : ☐							

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				OTHER : ☐			

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Tuesday, March 15, 2016 11:05:21 AM

Page 1

Work Order ID: 143520

143520

Parent Item: DSI 9740-011

DSI 9740-011

Parent Item Name: Strut Addition

Start Date: 3/28/2016

Required Date: 4/1/2016

Start Qty: 3.00

Required Qty: 3.00

Comments: IPP REV:A 16.02.02 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status	DAS
D5393-041 *D5393-041* Strut Assembly		Manufactured	No				Each	0.0000	** 3	143522				DAS 28 9-89
D5394-041 *D5394-041* Bracket Assembly		Manufactured	No				Each	0.0000	** 3	143523				DAS 28 9-89
D5395-1 *D5395-1* Bracket		Manufactured	No				Each	5.0000	** 3					DAS 28 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>				
				prelim				5		3				
				141245				5						
AN3-11A *AN3-11A* Bolt		Purchased	No				Each	191.0000	** 3					DAS 28 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>				
				ST349				191		3				
				m134167				191						

MAR 31 2016

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OTHER : ☐									

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Tuesday, March 15, 2016 11:05:21 AM

Page 2

Work Order ID: 143520

143520

Parent Item: DSI 9740-011

DSI 9740-011

Parent Item Name: Strut Addition

Start Date: 3/28/2016

Required Date: 4/1/2016

Start Qty: 3.00

Required Qty: 3.00

AN4-6A

Purchased

No

Each

876.0000

3

AN4-6A

BOLT

**

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CA

143

M128403

43

M130851

100

ST345

733

M133363

1

M133790

732

MS21042L3

Purchased

No

Each

2,700.000

3

MS21042L3

Nut

**

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

100

m133790

100

GA

61

m133790

61

OVER007

2000

m134360

2000

ST304

539

m134039

539

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Page 2

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OTHER : ☐					

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Tuesday, March 15, 2016 11:05:22 AM

Page 3

Work Order ID: 143520

143520

Parent Item: DSI 9740-011

DSI 9740-011

Parent Item Name: Strut Addition

Start Date: 3/28/2016

Required Date: 4/1/2016

Start Qty: 3.00

Required Qty: 3.00

MS21042L4

Purchased

No

Each

1,593.000

3

MS21042L4

Locknut

DAS 6 28
9-89 9-89

Location

Loc Qty

Loc Code

FP001

37

m133363

37

GA

447

m133769

447

ST303

1012

m134055

1012

ST305

97

m130922

97

NAS1149F0363P

Purchased

No

Each

408.0000

2 6

NAS1149F0363P

WASHER

DAS 6 28
9-89 9-89

Location

Loc Qty

Loc Code

ST262

408

124555

408

NAS1149F0463P

Purchased

No

Each

968.0000

2 6

NAS1149F0463P

Washer

DAS 6 28
9-89 9-89

Location

Loc Qty

Loc Code

ST260a

955

m127832

955

st268

13

m127832

5

m130388

8

DAS 27 9-89

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Page 3

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		OTHER : ☐							

3.0 PARTS LIST

QTY -011	PART NUMBER	DESCRIPTION
X	DSI 9740-011	STRUT KIT
1	D5393-041	STRUT ASSEMBLY
1	D5394-041	BRACKET
1	D5395-1	BRACKET
1	AN3-11A	BOLT
1	AN4-6A	BOLT
1	MS21042L3	NUT
1	MS21042L4	NUT
2	NAS1149F0363P	WASHER
2	NAS1149F0463	WASHER

4.0 WEIGHT AND BALANCE

INSTALLATION	WEIGHT	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
DSI 9740-011 Strut Kit (LH)	0.90 lb 0.41 kg	- 37.6 in - 0.96 m	- 33.8 in-lb - 0.39 m-kg	110.6 in 2.8 m	99.5 in-lb 1.15 m-kg
DSI 9740-011 Strut Kit (RH)	0.90 lb 0.41 kg	37.6 in 0.96 m	33.8 in-lb 0.39 m-kg	110.6 in 2.8 m	99.5 in-lb 1.15 m-kg

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-Q-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 16.01.26
CERT. NO.: SH94-14
ISSUE NO.: 7

 16.3.16

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9740	SHEET 2 OF 4
APPROVED	HS	TITLE	SCALE
DE APPR.		STRUT ADDITION	NTS
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DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D130-701 REV. E AND INSTRUCTIONS FOR
CONTINUED AIRWORTHINESS ICA-D130-701 REV. 3 OR LATER APPROVED REVISION

REF. TCCA STC: SH94-14
REF. FAA STC: SR00213NY
REF. EASA STC: 10016996
REF. ANAC STC: 2007S03-03

1.0 PURPOSE

The purpose of this Dart Service Instruction (DSI) is to provide instructions to add the D5393-041 strut assembly on the D130-701-043 Basket Installation at CHG 006 or earlier to reduce longitudinal oscillations. One DSI 9740-011 Strut kit must be applied to each Basket. The DSI 9740-011 Strut kit will be incorporated into D130-701-043 at CHG 007 and subsequent.

2.0 PROCEDURE

1. Enlarge the center hole on the D4039-041 Bracket to $\varnothing 0.257$ " per Figure 1. Touch up hole with Alodine 1200/1201 per MIL-C-5541 and prime per Aircraft Maintenance Manual.
2. Loosely install the D5395-1 Bracket and associated hardware on the fwd side of the D4039-041 Bracket as shown in Figure 1. Loosely install the D5394-041 Bracket on the Basket frame per Figure 2.
3. Install the D5393-041 Strut Assembly onto the D5395-1 Bracket and D5394-041 Bracket with 2x MS17984-C405 pip pins. Adjust the AN665-34R clevises as required.
4. Remove one of the MS17984-C405 pip pins and turn the AN665-34C clevis one half turn shorter so the rod is in tension. Reinstall the strut assembly and tighten the NAS509-2C Jam Nut. Torque the AN4-6A bolt and AN3-11A bolt per Table 1.
5. Secure the NAS509-4C jam nuts using lock wire per AC 43.13 or MS33540. After adjustment, use lockwire in the hole of the AN665-34R clevises to check for proper engagement of threads. It is acceptable to flip MS17984-C405 Quick Release Pin orientation to facilitate D5393-041 Strut Assembly installation.
6. Update aircraft logbook to indicate installation of the DSI 9740-011 Strut kit and adjust aircraft weight and balance record with weight and balance data provided in Section 4.0 of this document.

TABLE 1 - TORQUE VALUES

FASTENER TYPE	TORQUE (IN-LB)
#10	20-25
1/4"	50-70

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A	NEW ISSUE	VS	16.01.26
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MFG. APPR.	N/A	DSI 9740	SHEET 1 OF 4
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ENLARGE HOLE TO $\varnothing 0.257$ "
 INSTALL D5395-1 BRACKET USING:
 1X AN4-6A BOLT
 2X NAS1149F0463P WASHER
 1X MS21042L4 NUT

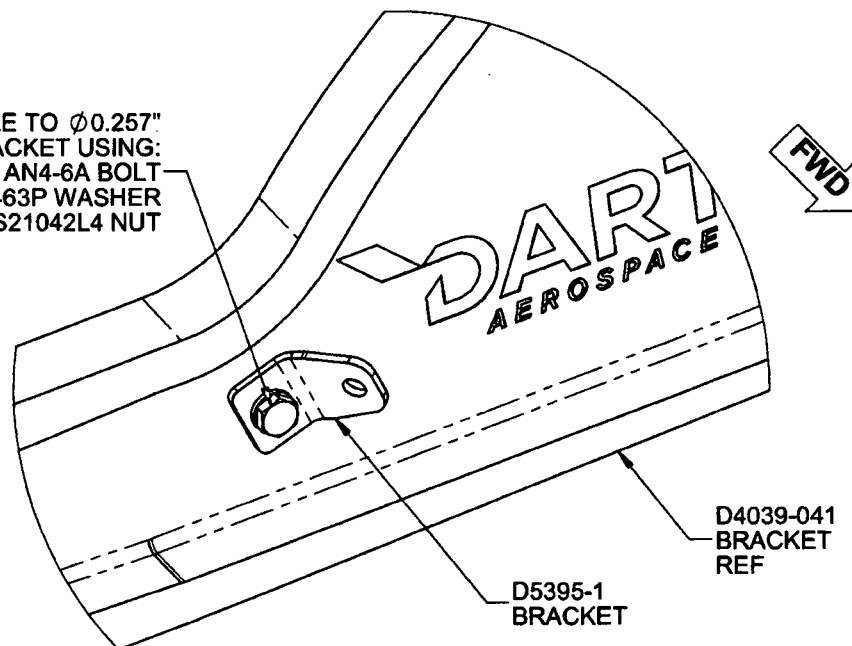
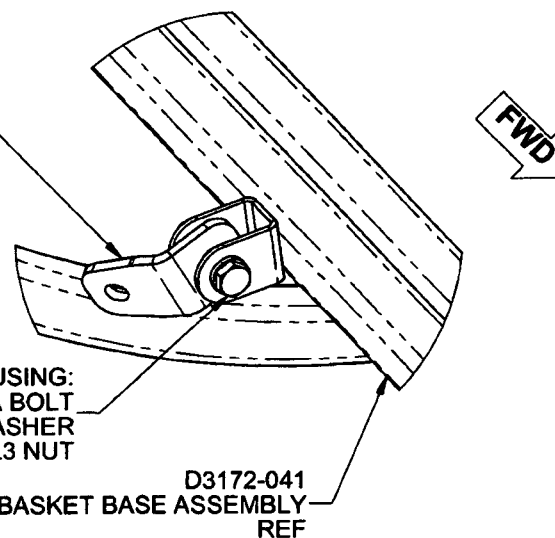


FIGURE 1: D5395-1 BRACKET INSTALLATION
 (LH INSTALL SHOWN, RH OPPOSITE)

D5394-041
 BRACKET



INSTALL D5394-041 BRACKET USING:
 1X AN3-11A BOLT
 2X NAS1149F0363P WASHER
 1X MS21042L3 NUT

D3172-041
 BASKET BASE ASSEMBLY
 REF

FIGURE 2: D5394-041 BRACKET INSTALLATION
 (LH INSTALL SHOWN, RH OPPOSITE)

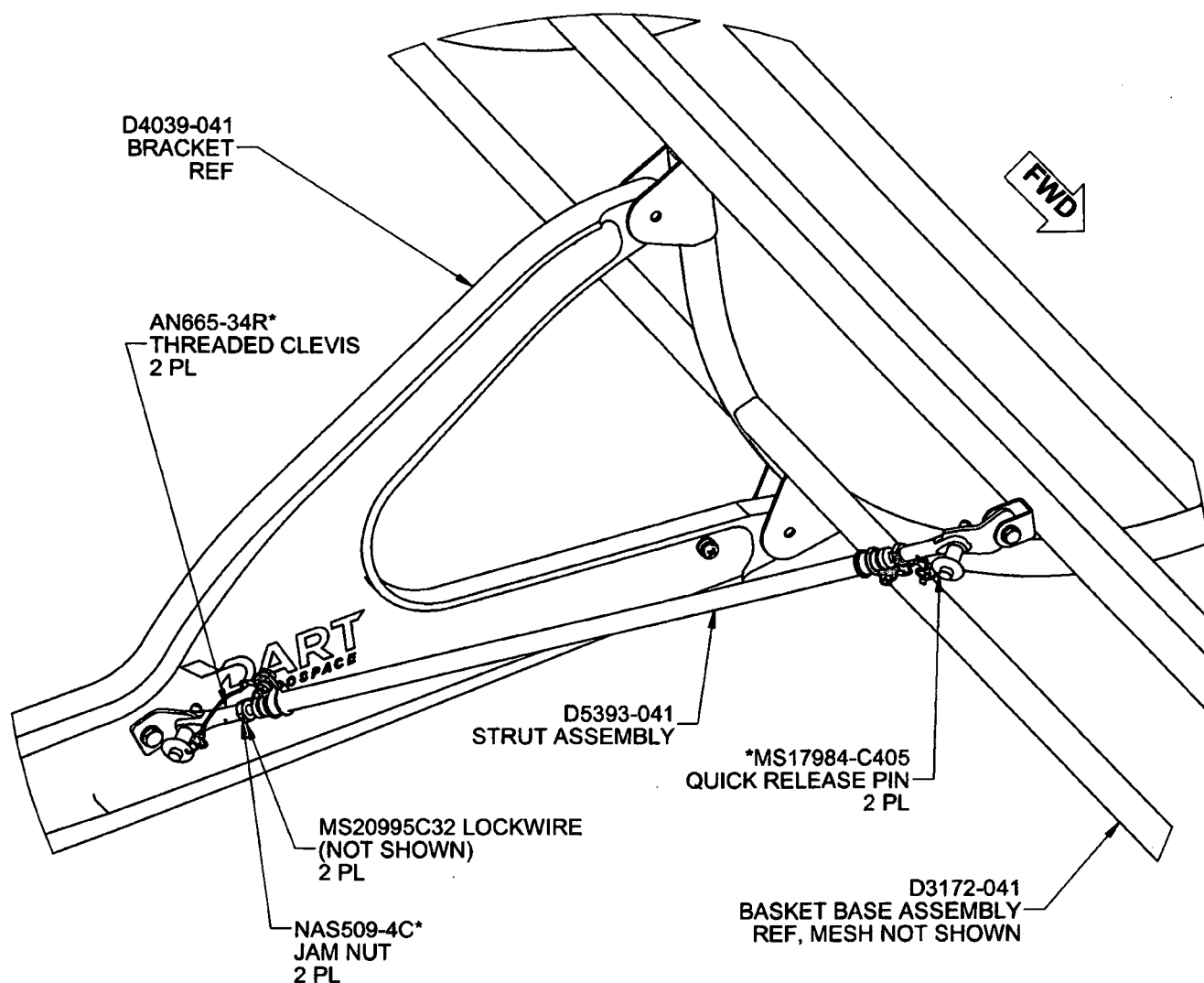
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*PART OF D5393-041 STRUT ASSEMBLY

FIGURE 2: D5393-041 STRUT INSTALLATION
(LH INSTALL SHOWN, RH OPPOSITE)

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4.0 WEIGHT AND BALANCE

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